

WHAT IS CLAIMED IS:

1. An apparatus for selectively deploying one or more sequentially positioned medical appliances from a portable medical device to a target site, the apparatus comprising:

- a ligation tip having a plurality of sequentially ordered deployable medical appliances in contact with its outside surface,
- the ligation tip having an internal passage;
- a body having a channel, the channel in communication with the internal passage of the ligation tip;
- a string passing through the internal passage and the channel, the string being associated with at least one of the medical appliances from the plurality of sequentially ordered deployable medical appliances; and
- a means, coupled to the string, for affirmatively verifying that the specific medical appliance, from the plurality of medical appliances, has been deployed.

2. A system for selectively deploying one or more sequentially positioned medical appliances from a portable medical device, having a passage through it, to a target site comprising:

- a flexible sheath having a channel, an inside surface, an outside surface, a distal end, and a proximal end;
- an external sealing plug positioned along the outside surface of the sheath between the distal end and the proximal end, the external sealing plug having a passage sized to slidably couple the sheath to the external sealing plug; and
- a plurality of strings positioned within the channel of the flexible sheath, wherein each string of the plurality of strings has a first end and a second end, the first end of at least one string coupled to a pull, the pull having a unique marking to distinguish it, the second end of this at least one string in physical communication with a catch.

- 1 3. The system of claim 2 further comprising:
2 a stopper fixedly positioned on the outside surface of the sheath; and
3 a ligation tip containing a plurality of deployable sequentially positioned medical
4 appliances and at least one deployment string, the deployment string coupled to the catch and at
5 least one of the medical appliances.
- 1 4. The system of claim 3 wherein the pull includes a label identifying a specific appliance.
- 1 5. The system of claim 4 wherein the label contains a specific number or color.
- 1 6. The system of claim 2 wherein the sealing plug contains threads sized to rotatably connect
2 it to the medical device.
- 1 7. The system of claim 6 wherein the stopper is sized to prohibit it from being pulled
2 through the passage of the sealing plug.
- 1 8. The system of claim 2 wherein the sheath is polygonal and wherein the shape of the pull
2 is associated with an appliance.
- 1 9. The system of claim 2 wherein the sealing plug is compressible and is sized to
2 compressibly secure itself to an orifice of the medical device.
- 1 10. The system of claim 2 wherein the external sealing plug contains external threads sized
2 to rotatably secure the plug to the medical device and wherein the medical device is an
3 endoscope.
- 1 11. The system of claim 2 wherein the catch is a loop.

1 12. A method for selectively deploying one or more sequentially positioned medical
2 appliances from a portable medical device to a target site comprising:

3 inserting into an entrance of a portable medical device a removeable cable system
4 containing a plurality of strings, at least one string having a first end and a second end, the first
5 end coupled to a pull, the pull marked to associate it with a specific deployable medical
6 appliance, the second end ending in a catch, the catch associated with the specific deployable
7 medical appliance, the plurality of strings encased within a sheath;

8 advancing the removeable cable system along the longitudinal axis of the portable
9 medical device;

10 exposing a second end of at least one string of the removeable cable system from the
11 orifice of the portable medical device;

12 connecting the second end of the at least one string to a second string, the second string
13 coupled to a deployable medical appliance, the deployable medical appliance positioned on a tip
14 having a connecting end adapted to secure itself to the portable medical device; and

15 installing the tip on the portable medical device.

1 13. The method of claim 12 further comprising:

2 positioning the distal end of the medical device at a target site; and

3 pulling at least one pull to deploy a medical appliance at the target site.

1 14. An apparatus for selectively deploying one or more sequentially positioned medical
2 appliances from a portable medical device to a target site comprising:

3 a body containing a variable length string pathway, the pathway having an opening,

4 the length of the pathway alterable through the introduction of a plunger into the
5 pathway,

6 the plunger slidably mounted in the body,

7 the body adapted to be secured to the medical device,

8 the body containing an anchoring point for a string.

1 15. The medical apparatus of claim 14 further comprising:
2 a second plunger slidably mounted in the body and positioned to slide into and elongate
3 the pathway within the body.

1 16. The medical apparatus of claim 14 wherein the body is trumpet-valve shaped.

1 17. A method for selectively deploying one or more sequentially positioned medical
2 appliances from a portable medical device to a target site comprising:
3 depressing a plunger of a body coupled to the medical device, the body containing a
4 string threaded through a string pathway, the string secured to the body, the length of the string
5 pathway being altered by the movement of the plunger, the string also in communication with a
6 deployable medical appliance.

1 18. The method of claim 17 further comprising:
2 depressing a second plunger located in the body, the second plunger altering the length of
3 the string pathway.

1 19. A medical apparatus for selectively deploying one or more sequentially positioned
2 medical appliances from a portable medical device to a target site comprising:
3 a shaft having a channel, an outside surface, an inside surface, a proximal end, a distal
4 end, and an opening;
5 an external handle slidably coupled to the outside surface of the shaft; and
6 a stop along the surface of the shaft, the stop adapted to retard the longitudinal movement
7 of the handle along the shaft,
8 the external handle connected to a string coupled to a tip having a plurality of
9 deployable medical appliances.

- 1 20. The medical apparatus of claim 19 further comprising:
2 a second stop along the surface of the shaft,
3 wherein the deployable medical appliances are ligating bands.
- 1 21. The medical apparatus of claim 19, wherein the stop is integrally formed with the shaft.
- 1 22. The medical apparatus of claim 19 wherein the stop is compressible.
- 1 23. A method for selectively deploying one or more sequentially positioned medical
2 appliances from a portable medical device to a target site comprising:
3 inserting the proximal end of a string into an opening in a hollow shaft, the shaft
4 having an outside surface, an inside surface, a proximal end, and a distal end;
5 securing the proximal end of the string to an external slidable handle, the handle
6 slidably coupled to the outside surface of the shaft, the distal end of the string in communication
7 with a deployable medical appliance; and
8 deploying a deployable medical appliance by sliding the handle until it reaches a
9 first stop.
- 1 24. The method of claim 24, further comprising:
2 sliding the handle axially along the shaft to reach a second stop.